



Sir:

Transmitted herewith for filing is the Patent Application of:

Inventor: **CHENG T. HORNG, LIUBO HONG, RU-YING TONG, YU-HSIA TONG**

For: **A NOVEL BUFFER (SEED) LAYER FOR MAKING A HIGH-PERFORMANCE MAGNETIC TUNNELING JUNCTION**

**MRAM**

Enclosed are:

- ☒ 2 sheets of drawing(s) - formal.
- ☒ An assignment of the invention to **Headway Technologies, Inc. & Applied Spintronics Inc.**
- ☐ An associate power of attorney ☐ Applicant claims small entity status
- ☐ Request & Certification under 35 USC 122(b)(2)(b)(i)

The filing fee has been calculated as shown below:

	(Col. 1)	(Col. 2)	OTHER THAN A SMALL ENTITY	
FOR:	NO. FILED	NO. EXTRA	RATE	FEE
BASIC FEE				\$ 770.
TOTAL CLAIMS	38 -20=	18	x 18 =	\$ 324.
INDEP CLAIMS	4 -3=	1	x 86 =	\$ 86.
SUB TOTAL				\$ 1,180.
ASSIGNMENT				\$40.
TOTAL				\$ 1,220.

- ☒ Please charge my Deposit Account No. 19-0033 in the amount of \$ 1,220. A duplicate copy of this sheet is enclosed.
- ☒ The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 19-0033. A duplicate copy of this sheet is enclosed.
- ☒ Any additional filing fees required under 37 CFR §1.16.
- ☒ Any patent application processing fees under 37 CFR §1.17.

Respectfully submitted,  
  
STEPHEN B. ACKERMAN, REG. NO. 37,761

**EXPRESS MAIL CERTIFICATE**

Express Mail No. **EV385358678US**

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA, 22313-1450. Applicant and/or Attorney requests the date of deposit as the Filing Date.

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